## **EAST Search History**

## **EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8	"5043706"	US-PGPUB; USPAT	OR	OFF	2009/01/26 16:16
S2	5	"5821427"	US-PGPUB; USPAT	OR	OFF	2009/01/26 16:20
S3	6	"5453866"	US-PGPUB; USPAT	OR	OFF	2009/01/26 16:39
S4	6	"4810891"	US-PGPUB; USP <b>A</b> T	OR	OFF	2009/01/26 16:40
<b>S</b> 5	0		US-PGPUB; USPAT	AND	OFF	2009/01/26 16:49
<b>\$</b> 6	0		US-PGPUB; USP <b>A</b> T	AND	OFF	2009/01/26 16:49
S7	0	(flow rate\$1 measur\$6 and pulse doppler and transmit time method \$1) and (ratio amplitude \$1 wave\$1 compar\$4 predeterm\$5 threshold \$4 value\$1) and (power spectrum\$1 and fourrier transform \$1) and (rece\$6 and transmi\$6 wave\$1)	US-PGPUB; USPAT	AND	OFF	2009/01/26 16:50

<b>S</b> 8	0	and pulse doppler and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26 16:50
S9	501	and pulse doppler and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26 16:50
S10	501	and pulse doppler and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26 16:51
S11	472		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26 16:53

S12	0	and pulse doppler and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26
S13	0	and pulse doppler and transmit time method \$1) and (ratio amplitude	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26
S14	0	(flow rate\$1 measur\$6 and pulse doppler and transmit time method \$1) and (ratio amplitude	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/01/26

S15	464	and pulse doppler and transmit time method \$1) and (ratio amplitude \$1 wave\$1 compar\$4 predeterm\$5 threshold \$4 value\$1) and (power spectrum\$1 doppler frequenc\$2 and fourier transform \$1) and (averag\$2 value\$1 measur\$6 point \$1) and (doppler shift \$1)	IBM_TDB	AND	OFF	2009/01/26
S16	464	3.3	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26
S17	4	600/455.ccls. and (flow	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 16:58

S18	0	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:01
S19	8	 US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:01
\$20	0	 US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:02

\$21	3	rate\$1 measur\$6 and pulse doppler and transmit time method \$1) and (ratio amplitude \$1 wave\$1 compar\$4 predeterm\$5 threshold \$4 value\$1) and (power spectrum\$1 doppler frequenc\$2 and fourier transform \$1) and (averag\$2	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:02
S22	4	value\$1 measur\$6 point \$1) and (doppler shift \$1) 600/454.ccls. and (flow	US-PGPUB;	AND	OFF	2009/01/26
X.C	7		USPAT; USOCR		5	17:05
\$23	4		US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:08

\$24	1		US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:09
<b>∑</b> 5		600/457.ccis. and (flow rate\$1 measur\$6 and pulse doppler and transmit time method \$1) and (ratio amplitude \$1 wave\$1 compar\$4 predeterm\$5 threshold \$4 value\$1) and (power spectrum\$1 doppler frequenc\$2 and fourier transform \$1) and (averag\$2 value\$1 measur\$6 point \$1) and (doppler shift \$1)	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 17:10
\$26	) O	;	US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 19:00

S27	464		US-PGPUB; USPAT; USOCR	AND	OFF	2009/01/26 19:01
S28	9	flow meter with switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1	US-PGPUB; USP <b>A</b> T	AND	OFF	2009/01/28 14:25
S29	23	("3766517"   "3987673"   "4028938").PN. OR ("4545244").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 14:31
\$30	279	flow meter and switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:38
S31	75	flow meter and switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1 and (predetermin\$4 threshold\$4 amplitude and compar\$4 ratio recept\$4 wave\$1)	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:40
S32	0		US-PGPUB; USPAT	AND	OFF	2009/01/28 14:49
S33	2213	600/473-479.ccls. and (flow meter and switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1) and (predetermin\$4 threshold\$4 amplitude and compar\$4 ratio recept\$4 wave\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/28 14:49

S34	3672694	S33 and power value\$1 spectrum\$1 and predetermin\$4 threshold\$4 power value\$1	US-PGPUB; USPAT	OR	OFF	2009/01/28 14:51
\$35	143	S33 and power value\$1 spectrum\$1 and predetermin\$4 threshold\$4 power value\$1	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:51
S36	1	600/453-457.ccls. and (flow meter and switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1) and (predetermin\$4 threshold\$4 amplitude and compar\$4 ratio recept\$4 wave\$1)	US-PGPUB; USP <b>A</b> T	AND	OFF	2009/01/28 14:53
\$37	3672694	S33 and power value\$1 spectrum\$1 and predetermin\$4 threshold\$4 power value\$1	US-PGPUB; USPAT	OR	OFF	2009/01/28 14:53
S38	1092	600/453-457.ccls. and (flow meter and switch \$5 between transit tim \$4 and doppler frequenc\$5 mode\$1) and (predetermin\$4 threshold\$4 amplitude and compar\$4 ratio recept\$4 wave\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/28 14:54
S39	0	S38 and power spectrum\$1 and predetermin\$4 thresold \$4 value\$1	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:55
S40	327	S38 and power spectrum\$1	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:55
S41	186	S40 amplitude\$1 maximum	US-PGPUB; USPAT	AND	OFF	2009/01/28 14:56
S42	50	switch\$4 flow meter\$1 with pulse doppler and transit time	US-PGPUB; USPAT	AND	OFF	2009/01/28 15:41
S43	40	flow meter\$1 with dual method\$1 switch\$4 and pulse doppler and transit time	US-PGPUB; USPAT	AND	OFF	2009/01/28 15:48

S44	<b>1</b>	(flow meter\$1 and pulse doppler with ratio amplitude value\$1 and reception wave\$1) and (compar\$4 amplitude\$1 value\$1 with predetermin\$4 value \$1) and (fourier transform with reception wave\$1 and power spectrum)	US-PGPUB; USPAT	AND	OFF	2009/01/28 16:44
<b>S</b> 45	748	600/453-457.ccls. and (flow meter\$1 and pulse doppler with ratio amplitude value\$1 and reception wave\$1) and (compar\$4 amplitude\$1 value\$1 with predetermin\$4 value \$1) and (fourier transform with reception wave\$1 and power spectrum)	US-PGPUB; USPAT	OR	OFF	2009/01/28 16:44
S46	4	600/453-457.ccls. and (flow meter\$1 and pulse doppler and ratio amplitude value\$1 and reception wave\$1) and (compar\$4 amplitude\$1 value\$1 and predetermin\$4 value \$1) and (fourier transform and reception wave\$1 and power spectrum)	US-PGPUB; USPAT	AND	OFF	2009/01/28 16:45
S47		600/453-457.ccls. and (flow meter\$1 and pulse doppler and ratio amplitude value\$1 and reception wave\$1) and (compar\$4 amplitude\$1 value\$1 and predetermin\$4 value \$1) and (fourier transform and reception wave\$1 and power spectrum) and (switch\$5 between pulse doppler and transit time and small \$4 value\$1)	US-PGPUB; USPAT	AND	OFF	2009/01/28 17:14

S48	751	600/453-457.ccls. and (flow meter\$1 and pulse doppler and ratio amplitude value\$1 and reception wave\$1) and (compar\$4 amplitude\$1 value\$1 and predetermin\$4 value \$1) and (fourier transform and reception wave\$1 and power spectrum) and (switch\$5 between pulse doppler and transit time and small \$4 value\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/28
S49	3	600/453-457.ccls. and (compar\$4 amplitude\$1 ratio with predetermin \$4 value\$1) and (compar\$4 power spectrum with predetermin\$4 value \$1)	US-PGPUB; USPAT	AND	OFF	2009/01/28 18:09
S50	6	((YOSHINORI) near2 (OHMURO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:10
S51	20	((HIRONOBU) near2 (YAO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:17
S52	70	((TOSHIHIRO) near2 (YAMAMOTO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:22
S53	0	"2004006436"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:46
S54	1	"20040006436"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:46
S55	6	"4271708"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:47
S56	4	"6474174"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:55
S57	2	"4721708"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 18:58
S58	13	"5228347"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 19:00
S59	22	"4162630"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 19:04
S61	2	"20010056237"	US-PGPUB; USPAT	OR	OFF	2009/01/31 14:45
S62	9	"6437856"	US-PGPUB; USPAT	OR	OFF	2009/01/31 14:47

S63	165	flow rate calculat\$4 with select\$5 pulse doppler and transit time	US-PGPUB; USPAT	AND	OFF	2009/01/31 15:27
S64	81	flow rate calculat\$4 with select\$5 pulse doppler and transit time and power spectrum and amplitude wave\$1	US-PGPUB; USPAT	AND	OFF	2009/01/31 15:40
S65	79	flow rate calculat\$4 with select\$5 pulse doppler and transit time and power spectrum and amplitude wave\$1 and predetermin\$5 value\$1	US-PGPUB; USPAT	AND	OFF	2009/01/31 15:42
S66	39	"2556146"	US-PGPUB; USPAT	AND	OFF	2009/01/31 21:56
S67	7	"5275040"	US-PGPUB; USPAT	OR	OFF	2009/01/31 22:05
S70	7	"5275040"	US-PGPUB; USPAT	OR	OFF	2009/02/01 13:51
S71	13	"5228347"	US-PGPUB; USPAT	OR	OFF	2009/02/01 15:07
S72	118	73/861.ccls. and (flow rate\$1 measur\$6 with pulse doppler and transmit time method \$1) and (ratio amplitude \$1 wave\$1 compar\$4 predeterm\$5 threshold \$4 value\$1) and (power spectrum\$1 and fourrier transform \$1) and (rece\$6 and transmi\$6 wave\$1)	US-PGPUB; USPAT	OR	OFF	2009/02/01 16:45
S73	255		US-PGPUB; USPAT	OR	OFF	2009/02/01 16:45

S74	2673	pulse doppler and transmit time with measur\$4 flow rate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/17 13:48
S75	0	pulse doppler method \$1 and transmit time method with measur\$4 flow rate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 13:48
S76	0	pulse doppler method \$1 and transmit time method\$1 with measur \$4 flow rate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/17 13:49
S77	0	pulse doppler method \$1 and transmit time method\$1 and measur \$4 flow rate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/17 13:50
S78	6	pulse doppler method \$1 and transmit time method\$1 and measur \$4 flow rate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 13:50
S79	8	pulse doppler method \$1 and transmit time method\$1 and measur \$4 flow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 13:51
S80	3	pulse doppler method \$1 with transmit time method\$1 and measur \$4 flow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 13:53
S81	8	"4271708"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 14:48
S82	3	measur\$4 flow with pulse doppler method \$1 and transmit time method	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 15:30
S83	4	measur\$4 flow and pulse doppler method \$1 and transit time method	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 15:43

S84	4	measur\$4 flow and pulse doppler method \$1 and transit time method	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/17 15:43
S85	0	measur\$4 flow and pulse doppler method \$1 and transit time method	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/17 15:43
S86	74	flow meter\$1 with doppler and transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/24 14:49
S87	84	flow meter\$1 and doppler with transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/24 14:51
S88	5	flow meter\$1 and pulse doppler with transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/24 14:51
S89	4	flowmeter\$1 and pulse doppler method\$1 with transit time method\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2009/09/24 14:53
S90	4938829	flowmeter\$1 with pulse doppler mode\$1 and transit time mode\$1	US-PGPUB; USPAT	OR	OFF	2009/09/24 16:34
S91	13	flowmeter\$1 with pulse doppler mode\$1 and transit time mode\$1	US-PGPUB; USPAT	AND	OFF	2009/09/24 16:34
S92	31	flowmeter\$1 us\$4 doppler and transit time	US-PGPUB; USPAT	WITH	OFF	2009/09/24 16:48
S93	0	flowmeter\$1 with dual method\$1 doppler and transit time	US-PGPUB; USPAT	WITH	OFF	2009/09/24 16:54
S94	3	flowmeter\$1 switch\$4 pulse doppler and transit time	US-PGPUB; USPAT	WITH	OFF	2009/09/24 16:55
S95	5	pulse doppler and transit time with flowmeter\$1	US-PGPUB; USPAT	ADJ	OFF	2009/09/24 18:15
S96	0	flowmeter\$1 switch\$4 pulse doppler and transit time	US-PGPUB; USPAT	ADJ	OFF	2009/09/24 18:19

S97	3	flowmeter\$1 switch\$4 pulse doppler and transit time	US-PGPUB; USPAT	WITH	OFF	2009/09/24 18:19
S98	45	flowmeter\$1 switch\$4 pulse doppler mode\$1 and transit time mode \$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/24 18:20
S99	138	flowmeter\$1 with dual mode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/24 18:27
S100	92	flowmeter\$1 with doppler and transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/24 18:29
S101	0	pulse doppler mode\$1 and transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/24 18:36
S102	37	doppler mode\$1 and transit time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/24 18:36
S103	18	doppler mode\$1 and transit time with flow	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/09/24 18:38
S104	0	detyermin\$4 flow\$3 with doppler and transit time	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:07
S105	635	determin\$4 flow\$3 with doppler and transit time	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:07
S106	129	determin\$4 flow\$3 with doppler and transit time	US-PGPUB; USPAT	WITH	OFF	2009/09/28 17:07
S107	24	determin\$4 flow\$3 with switch\$4 between pulse doppler with transit time	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:09
S108	3	switching measur\$5 method\$1 between pulse Doppler and transit time us\$5 ultras \$4 flowmeter\$1 with measuring flow rate	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:18

S109		switch\$4 measur\$5 method\$1 between pulse Doppler and transit time us\$5 ultras \$4 flowmeter\$1 with measuring flow rate	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:18
S110	30	switch\$4 measur\$5 method\$1 between pulse Doppler and transit time us\$5 ultras \$4 flowmeter\$1 and measuring flow rate	US-PGPUB; USPAT	AND	OFF	2009/09/28 17:19
S111	60	"4787252"	US-PGPUB; USPAT	OR	OFF	2009/09/28 19:15

## 9/30/2009 12:12:50 PM

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